#### => d his

### (FILE 'HOME' ENTERED AT 07:55:07 ON 16 SEP 2002)

```
FILE 'CA' ENTERED AT 07:55:23 ON 16 SEP 2002
               E SMITH KIM R/AU
L1
             86 S E3-E4
                E FUK PONG MAN V/AU
                E MAN VICTOR FUK PONG/AU
L2
             26 S E2-E3
                E WISETH WENDY/AU
L3
              5 S E3-E4
                E STARDIG RICHARD/AU
L4
          24188 S (HYDRAT? OR MONOHYDRATE# OR DIHYDRATE# OR TRIHYDRATE# OR
TETR
         313891 S HYDRATABLE OR ANIONIC OR NONIONIC OR ETHOXY? OR EO OR
L5
DODECYL
L6
            853 S L4 AND L5
L7
          78046 S (WITHOUT OR ABSENT OR ABSENCE OR FREE OR NO OR
INTERNAL) (5A) (
r_8
              5 S L6 AND L7
L9
            176 S L4 AND L7
L10
            13 S L9 AND (DETERGENT# OR WASH? OR WAREWASH? OR DISH? OR
TABLEWAR
L11
           4105 S (HEXAHYDRATE# OR HEPTAHYDRATE# OR OCTAHYDRATE# OR
DECAHYDRATE
              1 S L11 AND L5 AND L7
L13
             26 S L11 AND L7
             4 S L13 AND (DETERGENT# OR WASH? OR WAREWASH? OR DISH? OR
TABLEWA
L15
             32 S (H20)(4A)(NA2CO3 OR NA2SO4 OR STPP OR NA2HCO3 OR SILICATE#
OR
L16
              2 S L15 AND L7
L17
             5 S HYDRAT?(P)HYDRATABLE(P)(MOLD? OR MOULD?) AND (DETERGENT# OR
L18
             30 S (MOULD? OR MOLD?) (P) (ENZYME# OR PROTEASE# OR AMYLASE# OR
LIPA
              1 S L18 AND L4
L19
L20
              0 S L18 AND L11
L21
             14 S (MOULD? OR MOLD?) (P) (GLYCOL ETHER# OR BUTOXYETHANOL OR
BUTOXY
L22
        395064 S EXTRUD? OR EXTRUSION OR CAST?
L23
            359 S L4 AND L22
L24
             7 S L23 AND L7
L25
             46 S L11 AND L22
L26
            293 S (EXTRUD? OR EXTRUSION) (P) (ENZYME# OR PROTEASE# OR AMYLASE#
OR
L27
              3 S L4 AND L26
              0 S L11 AND L26
L28
              0 S L15 AND L26
L29
L30
              6 S (EXTRUD? OR EXTRUSION) (P) (ENZYME# OR PROTEASE# OR AMYLASE#
OR
```

FILE 'STNGUIDE' ENTERED AT 09:13:42 ON 16 SEP 2002

FILE 'CA' ENTERED AT 09:23:44 ON 16 SEP 2002

## => d 1-5 18 ti

- L8 ANSWER 1 OF 5 CA COPYRIGHT 2002 ACS
- TI Organic-mineral modifier for cementitious systems
- L8 ANSWER 2 OF 5 CA COPYRIGHT 2002 ACS
- TI Liquid nonaqueous cleaning products containing a bleach and a free radical

## scavenger

- L8 ANSWER 3 OF 5 CA COPYRIGHT 2002 ACS
- TI Preparation and properties of copper synthetic anionic clays
- L8 ANSWER 4 OF 5 CA COPYRIGHT 2002 ACS
- TI Anodic electrocoating compositions
- L8 ANSWER 5 OF 5 CA COPYRIGHT 2002 ACS
- TI Possibility of removing water of crystallization from pentaammonium tripolyphosphate monohydrate without destroying the anion

### > d 1-13 110 ti

- L10 ANSWER 1 OF 13 CA COPYRIGHT 2002 ACS
- TI Preparation of sodium perborate hydrate granules without heating
- L10 ANSWER 2 OF 13 CA COPYRIGHT 2002 ACS
- TI Liquid nonaqueous cleaning products containing a bleach and a free radical

scavenger

- L10 ANSWER 3 OF 13 CA COPYRIGHT 2002 ACS
- TI Manufacture of sodium carbonate monohydrate
- L10 ANSWER 4 OF 13 CA COPYRIGHT 2002 ACS
- ${\tt TI}$  Calcium silicate in the form of .alpha.-Wollastonite and its intermediates
- L10 ANSWER 5 OF 13 CA COPYRIGHT 2002 ACS
- TI Bleaching and cleaning mixtures
- L10 ANSWER 6 OF 13 CA COPYRIGHT 2002 ACS
- TI Diperisophthalic acid bleaching compositions
- L10 ANSWER 7 OF 13 CA COPYRIGHT 2002 ACS
- TI Calcium sulfate dihydrate from mineral phosphate
- L10 ANSWER 8 OF 13 CA COPYRIGHT 2002 ACS
- TI High-purity cerous sulfate octahydrate
- L10 ANSWER 9 OF 13 CA COPYRIGHT 2002 ACS
- TI Synthetic zeolite
- L10 ANSWER 10 OF 13 CA COPYRIGHT 2002 ACS
- TI Utilization of calcined magnesite in neutralization filters
- L10 ANSWER 11 OF 13 CA COPYRIGHT 2002 ACS
- TI Separation of alkylation catalyst from the products by dialysis
- L10 ANSWER 12 OF 13 CA COPYRIGHT 2002 ACS
- TI The determination of silicic acid in portland cement and in soluble silicates by the rapid method
- L10 ANSWER 13 OF 13 CA COPYRIGHT 2002 ACS
- TI Beryllium. I. Beryllium sulfate and its hydrates

```
L13 ANSWER 7 OF 26 CA COPYRIGHT 2002 ACS
AN
     127:163479 CA
     Detergent compositions that solidify without heat,
TI
     pressure or water
IN
     Ando, Yoshitaka; Hiki, Kiyotaka
PA
     Teii Hooru K. K., Japan
SO
     Jpn. Kokai Tokkyo Koho, 10 pp.
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
IC
     ICM C11D007-06
     ICS C09K003-00; C11D007-14; C11D007-16; C11D017-06
     46-6 (Surface Active Agents and Detergents)
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO.
                                                             DATE
                      ----
                                            _____
PΙ
     JP 09176691
                       A2
                             19970708
                                            JP 1995-333633
                                                             19951221
     JP 3302549
                       B2
                            20020715
AΒ
     The title compns. contain metal ion sequestering agents and detergents,
in
     the form of solid particles, and at least a portion of the detergent is
     used in hydrated form. A compn. (100 g) from Na tripolyphosphate 30, Na
     metasilicate-9H2O 10, and NaOH 42 parts was allowed to solidify in a
     500-mL plastic container for 1 day to give a detergent showing good
     detergency in dishwashing.
ST
     dishwashing detergent sequestering agent
IT
     Detergents
     Sequestering agents
        (detergent compns. that solidify without heat,
        pressure or water)
IT
     Detergents
        (dishwashing; detergent compns. that solidify without
        heat, pressure or water)
IT
     60-00-4, EDTA, uses
                          497-19-8, Sodium carbonate, uses
                                                               1310-73-2
Sodium
     hydroxide, uses
                       1344-09-8, Sodium silicate
                                                     5064-31-3, Trisodium
                        6132-02-1, Sodium carbonate
     nitrilotriacetate
                  7727-73-3, Sodium sulfate
7757-82-6, Sodium sulfate, uses
     decahydrate
     decahydrate
                                                      7758-29-4, Sodium
     tripolyphosphate
                        13517-24-3, Sodium metasilicate nonahydrate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (detergent compns. that solidify without heat,
```

pressure or water)

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L13 ANSWER 6 OF 26 CA COPYRIGHT 2002 ACS
AN
     127:207327 CA
ΤI
     Solid detergent and its manufacturing method
IN
     Ando, Yoshitaka; Hiki, Kiyotaka
     T. Paul K. K., Japan
PA
SO
     Jpn. Kokai Tokkyo Koho, 12 pp.
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
     ICM C11D017-00
ICS C11D007-14; C11D007-16
IC
     46-6 (Surface Active Agents and Detergents)
CC
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
     _____
                                          ______
                     ----
PΙ
                  A2
     JP 09217100
                           19970819
                                          JP 1996-25207
                                                          19960213
     The detergent esp. useful for dishwashing is manufd. by prepg. a
AΒ
uniformly
     mixed detergent compn. that partially contains hydrate compds. from an
     aggregate of solid particles with av. particle size 0.05-2.0 mm and
     naturally solidifying the mixt. under no heating and
     no pressuring. Prepg. a compn. (av. particle size 0.8 mm) contq.
     Na tripolyphosphate 30, Na metasilicate-9 H2O 10, and NaOH 42%, filling
     the compn. in a closed container, and sitting at 20-25.degree. for 1 day
     gave a solid detergent with sp. gr. 1.4, good detergency and
     solidification degree.
     solid detergent solidification dishwashing; hydrate detergent
ST
     solidification
ΙT
    Detergents
        (dishwashing; solid detergent prepn. by solidification with hydrate
        compds.)
ΙT
     Solidification
        (solid detergent prepn. by solidification with hydrate compds.)
ΙT
    Hydrates
    RL: MOA (Modifier or additive use); PEP (Physical, engineering or
chemical
    process); PROC (Process); USES (Uses)
        (solid detergent prepn. by solidification with hydrate compds.)
     6132-02-1, Sodium carbonate decahydrate 7727-73-3,
    Sodium sulfate decahydrate 13517-24-3, Sodium
    silicate nonahydrate
    RL: MOA (Modifier or additive use); PEP (Physical, engineering or
    process); PROC (Process); USES (Uses)
        (solid detergent prepn. by solidification with hydrate compds.)
IT
    7758-29-4, Sodium tripolyphosphate
    RL: PEP (Physical, engineering or chemical process); TEM (Technical or
    engineered material use); PROC (Process); USES (Uses)
        (solid detergent prepn. by solidification with hydrate compds.)
```

L14 4 L13 AND (DETERGENT# OR WASH? OR WAREWASH? OR DISH? OR TABLEWARE#

- => d 1-4 114 ti
- L14 ANSWER 1 OF 4 CA COPYRIGHT 2002 ACS
- TI Solid detergent and its manufacturing method
- L14 ANSWER 2 OF 4 CA COPYRIGHT 2002 ACS
- TI Detergent compositions that solidify without heat, pressure or water
- L14 ANSWER 3 OF 4 CA COPYRIGHT 2002 ACS
- TI Preparation of zinc sulfate and active zinc oxide from zinc ore by wet process
- L14 ANSWER 4 OF 4 CA COPYRIGHT 2002 ACS
- TI High-purity cerous sulfate octahydrate

# => d 1-2 116 ti

L16 ANSWER 1 OF 2 CA COPYRIGHT 2002 ACS
TI Structures of some supposed 2,4-azetidinediones. I. Derivatives of malonic acid

L16 ANSWER 2 OF 2 CA COPYRIGHT 2002 ACS
TI The extraction of phenols with sodium sulfide solution

=> d 1-5 117 ti

- L17 ANSWER 1 OF 5 CA COPYRIGHT 2002 ACS
- TI Preparation of a solid cleaning and/or disinfecting composition by injecting water into a powder
- L17 ANSWER 2 OF 5 CA COPYRIGHT 2002 ACS
- TI Method of making solid cast alkaline detergent composition
- L17 ANSWER 3 OF 5 CA COPYRIGHT 2002 ACS
- TI Cast washing agent
- L17 ANSWER 4 OF 5 CA COPYRIGHT 2002 ACS
- TI Cast detergent-containing article
- L17 ANSWER 5 OF 5 CA COPYRIGHT 2002 ACS
- TI Concrete-like products from wastes of the soda industry
- => d 1-5 117 hit
- L17 ANSWER 1 OF 5 CA COPYRIGHT 2002 ACS
- AB A powd. cleaning and/or disinfecting compn. contg. .gtoreq. 1 water-sol. or hydratable component is placed in a mold, and water or an aq. soln. or dispersion of additives is injected at 0-30.degree. into the powder through needles to cause the powder to form a solid molding. The process avoids degrdn. of heat-sensitive components of the compn. A mixt. of NaOH particles 40, powd. Na5P3O10 40, powd. Na2SiO3.5H2O 19.5, and Na (C12-14-alkyl)benzenesulfonate 0.5% was placed in a mold, and water was injected into the mixt. through needles to give a solid detergent compn.
- IT Detergents

IT

Detergents

(cleaning compns., molding, manuf. of, by injecting water into powder)

- L17 ANSWER 2 OF 5 CA COPYRIGHT 2002 ACS
- TI Method of making solid cast alkaline detergent composition
- AB Particles of a detergent component are placed in a mold, an aq. soln. of a hydratable alk. compd. is added to fill the spaces between the particles, and the soln. is solidified to give a detergent block which is useful in a dispenser which functions by spraying water on the block to form a concd. detergent soln. for addn. to a wash tank, e.g., in a dishwashing app. Placing 2 kg particles comprising 50% tripolyphosphate (20-40 mesh) and 50% Na disilicate (20-100 mesh) in a 3.5-L receptacle and adding 2 kg 70% aq. NaOH (at 180.degree.F) gave a solid block after 15 min, 62.3% of the tripolyphosphate being present in the block in unreverted form.
- ST tripolyphosphate cast detergent block; silicate cast detergent block; disilicate cast detergent block; dishwashing cast detergent block; alkali cast detergent block; casting detergent block alkali
- (alk., prepn. of cast blocks of, for dishwasher dispensers)
  IT 1310-73-2, Sodium hydroxide, uses and miscellaneous 7758-29-4,
  Pentasodium tripolyphosphate 13870-28-5, Sodium disilicate
  RL: USES (Uses)

(detergent blocks contg., prepn. of cast, for dishwasher dispensers)

L17 ANSWER 3 OF 5 CA COPYRIGHT 2002 ACS ΤI Cast washing agent AΒ A three-dimensional, solid, cast, hydrated alk. detergent compn. is prepd. which contains .gtoreq.30% hydratable alkali metal hydroxide, a sequestering agent for hardness ions, and water of hydration. In some cases, the compns. contain antifoaming agents, a source of available Cl, and/or other additives. The compns. are useful in dishwashing machines. Thus, a 57% aq. NaOH soln. was prepd. at 55-60.degree., mixed with Na5P3010, cast into molds, and solidified to give a product contg. NaOH 36.5, water 27.5, and Na5P3010 36.0%. sodium hydroxide detergent dishwashing; STdishwashing detergent alkali solid; tripolyphosphate dishwashing detergent; hydrate alkali detergent dishwashing Antifoaming agents IT Bleaching agents (detergents contg., solid, hydrated, for mech. dishwashers) ΙT Detergents (dishwashing, alkali-contg., solid, cast, hydrated) 1310-73-2, uses and miscellaneous 2893-78-9 6834-92-0 ΙT 7758-29-4 13840-33-0 RL: TEM (Technical or engineered material use); USES (Uses) (detergents contg., solid, hydrated, for mech. dishwashers) L17 ANSWER 4 OF 5 CA COPYRIGHT 2002 ACS TI Cast detergent-containing article Solid cast detergent compns. in disposable molds are ΑĖ prepd. for use in automatic dishwashers, etc. The detergent compn. is dispensed from the mold by a liq. spray. The cast detergent compns. contain water and .gtoreq.1 hydratable chem. In some cases, the cast detergent compns. contain .gtoreq.1 preformed plug or core contg. a Cl source, a defoamer, etc.. The cast detergent compns. minimize Cl instability and differential soly. problems. Thus, 55 parts 50% aq. NaOH was heated to 55-60.degree., mixed with nine parts NaOH and 36 parts Na5P3010, and cast into a disposable mold to prep. a solid detergent. ST molding detergent automatic dispensing; dishwasher detergent compn molding; bleaching detergent compn molding; cleaning bleaching compn molding; alkali detergent compn molding ITDetergents (alk., molded, for dispensing by spray liq.) ΙT Bleaching agents (chlorine compds., molded detergents contg., for dispensing

L17 ANSWER 5 OF 5 CA COPYRIGHT 2002 ACS

by spray liq.)

AB All the waste products from soda ash manuf., such as overburned and underburned lenticular lime (A) (contg. CaCO3, CaO, di- and tricalcium silicate, and clay) and the solids (B) obtained from the distn. residues

are utilized in combination with powd. quartz and, optionally, portland cement, basic blast-furnace slags, H2O, and a swelling agent to produce bonded concrete-like products by steam-curing. Vertical **molds** of sufficient height, e.g. of >1 story of a building, are used. The complete mixt. contains 15-30% A (contg. CaCO3 45-60, CaO 8-20, di- and tricalcium compds. 4-15, and clay 4-8%), 30-50% B (contg. CaCO3 50-60,

6-16, and CaCl2 <0.45%), and 20-60% quartz (contg. >75% SiO2), 30-50% H2O,

and, if necessary, 5% of a **hydratable** siliceous material and 0.035% of a swelling agent. For example, 30% B in which the CaCl2 content

had been reduced by washing, 30% crushed A sieved from the paste of slaked lime, and 35% quartz powder were fed into a ball mill with the addn. of 5% cement and ground with H2O to obtain a total moisture content of 45% and a 4900-mesh/sq. cm. residue of 5-10%. The mixt. was agitated, a swelling agent 0.045% Al paste was added, and the mass was poured into vertical molds in an autoclave. The mass was steam-cured 2.5 hrs. at 0-8.5, 10.75 hrs. at 8.5, and 0.75 hr. at 8.5-0 atm. The resulting porous concrete had a min. compressive strength of 60-99 kg./sq.

cm. and a tensile-flexural strength of 28 kg./sq. cm., an apparent d. of 0.7-0.8, a free CaO content of 1.7%, and was smooth and free of fissures. After 4 months in H2O there was no efflorescence.

CaO

### => d 1-14 121 ti

- L21 ANSWER 1 OF 14 CA COPYRIGHT 2002 ACS
- TI Polyurethane compositions for molding of transmission belts
- L21 ANSWER 2 OF 14 CA COPYRIGHT 2002 ACS
- TI Hardener compositions for polyurethanes
- L21 ANSWER 3 OF 14 CA COPYRIGHT 2002 ACS
- TI Peroxide in binders for foundry molds
- L21 ANSWER 4 OF 14 CA COPYRIGHT 2002 ACS
- TI Hydrogen peroxide in binders
- L21 ANSWER 5 OF 14 CA COPYRIGHT 2002 ACS
- TI Urethane resins
- L21 ANSWER 6 OF 14 CA COPYRIGHT 2002 ACS
- TI Surface treatment of polycarbonate moldings
- L21 ANSWER 7 OF 14 CA COPYRIGHT 2002 ACS
- TI Heat-insulating articles
- L21 ANSWER 8 OF 14 CA COPYRIGHT 2002 ACS
- TI Fiber-reinforced reaction resin-plastic foam supporting core-composite materials and moldings
- L21 ANSWER 9 OF 14 CA COPYRIGHT 2002 ACS
- TI In-the-mold coating
- L21 ANSWER 10 OF 14 CA COPYRIGHT 2002 ACS
- TI Molded foam materials based on polyisocyanate
- L21 ANSWER 11 OF 14 CA COPYRIGHT 2002 ACS
- TI Mixture for heat insulation materials
- L21 ANSWER 12 OF 14 CA COPYRIGHT 2002 ACS
- TI Urethane foams
- L21 ANSWER 13 OF 14 CA COPYRIGHT 2002 ACS
- TI Internally plasticized epoxy resins
- L21 ANSWER 14 OF 14 CA COPYRIGHT 2002 ACS
- TI Elastomeric polyurethans

### > d 1-7 124 ti

- L24 ANSWER 1 OF 7 CA COPYRIGHT 2002 ACS
- TI Protective powder coatings having increased heat-resistance which are defect-free at greater thickness, preparation thereof and articles coated therewith
- L24 ANSWER 2 OF 7 CA COPYRIGHT 2002 ACS
- TI Manufacture of heat-storage capsules
- L24 ANSWER 3 OF 7 CA COPYRIGHT 2002 ACS
- TI Silica fume-containing, hard setting castable refractory compositions
- L24 ANSWER 4 OF 7 CA COPYRIGHT 2002 ACS
- TI Extrusion molding of calcium silicate hydrate
  -based materials for lightweight building materials
- L24 ANSWER 5 OF 7 CA COPYRIGHT 2002 ACS
- TI Thermal insulator for avoiding pinholes in the casting of metals
- L24 ANSWER 6 OF 7 CA COPYRIGHT 2002 ACS
- TI Copper plating on zinc die castings
- L24 ANSWER 7 OF 7 CA COPYRIGHT 2002 ACS
- TI Basic refractory bonding cements resisting hydration

L30 6 (EXTRUD? OR EXTRUSION) (P) (ENZYME# OR PROTEASE# OR AMYLASE# OR LIPASE# OR CELLULASE# OR GLYCOL ETHER# OR BUTOXY? OR

GLYCOL#)(P)

(ANIONIC OR NONIONIC OR ETHOXY? OR ALKYLBENZENE OR ABS OR HLAS OR AES OR SULFONATE# OR SULPHONATE#) (P) (HYDRATE# OR DIHYDRATE# OR TRIHYDRATE# OR ?HYDRATE)

=> d 1-6 130 ti

- L30 ANSWER 1 OF 6 CA COPYRIGHT 2002 ACS
- TI Perfume beads in detergent forms, especially tablets for machine laundering
- L30 ANSWER 2 OF 6 CA COPYRIGHT 2002 ACS
- TI Heat-stable antistatic acrylic polymer composition
- L30 ANSWER 3 OF 6 CA COPYRIGHT 2002 ACS
- TI Extrusion and cutting of detergent compositions to form granules
- L30 ANSWER 4 OF 6 CA COPYRIGHT 2002 ACS
- TI Polyester and polyamide compositions containing sulfonated polyethers
- L30 ANSWER 5 OF 6 CA COPYRIGHT 2002 ACS
- TI Curable chlorinated polyethylene compositions
- L30 ANSWER 6 OF 6 CA COPYRIGHT 2002 ACS
- TI Selective hydroxyl reactivity in methyl .alpha.-D-glucopyranoside

37 11 (EXTRUD? OR EXTRUSION) (P) (ENZYME# OR PROTEASE# OR AMYLASE# OR LIPASE# OR CELLULASE# OR GLYCOL ETHER# OR BUTOXY? OR

GLYCOL#)(P)

(ANIONIC OR NONIONIC OR ETHOXY? OR ALKYLBENZENE OR ABS OR HLAS OR AES OR SULFONATE# OR SULPHONATE#) (P) (HYDRATE# OR DIHYDRATE# OR TRIHYDRATE# OR ?HYDRATE)

- => d 1-11 137 ti
- L37 ANSWER 1 OF 11 USPATFULL
- TI Stability enhancing formulation components, compositions and laundry methods employing same
- L37 ANSWER 2 OF 11 USPATFULL
- TI Detergent tablet containing bleach activator of specific particle size
- L37 ANSWER 3 OF 11 USPATFULL
- TI Detergent compositions containing enduring perfume
- L37 ANSWER 4 OF 11 USPATFULL
- TI Amorphous alkali metal silicate compound
- L37 ANSWER 5 OF 11 USPATFULL
- ${\tt TI}$  O-substituted N,N-diacylhydroxylamine bleach activators and compositions

employing the same

- L37 ANSWER 6 OF 11 USPATFULL
- TI Detergent composition containing optimally sized bleach activator particles
- L37 ANSWER 7 OF 11 USPATFULL
- TI Detergent composition containing cylindrically-shaped bleach activator extrudates
- L37 ANSWER 8 OF 11 USPATFULL
- TI Process for the manufacture of surfactant cleansing blocks and compositions thereof
- L37 ANSWER 9 OF 11 USPATFULL
- TI Conductive N-alkyl polyamide having units containing phosphonium sulfonate groups
- L37 ANSWER 10 OF 11 USPATFULL
- TI Conductive aliphatic polyester or polyetherester having units containing

phosphonium sulfonate groups

- L37 ANSWER 11 OF 11 USPATFULL
- TI Liquid or pasty dentifrice and process for its preparation